

CLAIM AMENDMENTS

1. (Currently Amended) Cooling element provided with louvers to be used in a heat exchanger under the influence of passing cooling medium used for cooling another medium flowing inside a circulating element whereto the cooling element is ~~bond~~ bonded by a contact area on one edge and in that the cooling element is a part of a corrugated strip which has a contact area alternatively with two circulating elements, and the louvers form an angle with the surface of the cooling element, ~~characterised~~ characterized in that the cooling element ~~(1, 11, 21, 32)~~ is positioned so that the cooling element ~~(1, 11, 21, 32)~~ forms ~~an~~ a substantially equal angle ~~(B)~~ to the longitudinal direction of the circulating element ~~(2, 14, 23, 31)~~ as the louvers ~~(4, 12, 25, 33)~~ form to the surface ~~(C)~~ of the cooling element ~~(1, 11, 21, 32)~~.

C2 2. (Currently Amended) Cooling element according to ~~the~~ claim 1, ~~characterised~~ characterized in that the angle of the cooling element ~~(1, 11, 21, 32)~~ to the longitudinal direction of the circulating element ~~(2, 14, 23, 31)~~ is in the range of 20 to 45 degrees.

3-9 (Previously Cancelled)

10. (Previously Added) Cooling element according to claim 1, characterized in that the cooling element is positioned to the contact area with the circulating element so that the contact area with the circulating element forms a shape of a straight line on its substantially whole length.

11. (Previously Added) Cooling element according to claim 1, characterized in that the cooling element is positioned so that the contact area with the circulating element forms a shape of a fraction line so that each part of the fraction line forms a substantially equal angle with the longitudinal direction of the circulating element.

12. (Previously Added) Cooling element according to claim 1, characterized in that the cooling element is made of copper.

13. (Previously Added) Cooling element according to claim 1, characterized in that the cooling element is made of copper-based alloy.

14. (Previously Added) Cooling element according to claim 1, characterized in that the cooling element is made of aluminum.

15. (Previously Added) Cooling element according to claim 1, characterized in that the cooling element is made of aluminum-based alloy.

16. (Previously Added) Cooling element according to claim 1, characterized in that the cooling element is a fin.

CD 17. (New) A heat exchanger comprising:
first and second circulating elements each having a longitudinal direction and each defining an interior space for conducting a flow of heat exchange medium, and
a cooling element having a surface and also having a contact area at one edge, wherein the cooling element is bonded at its contact area to the first circulating element and is provided with louvers that are disposed at a first predetermined acute angle to the surface of the cooling element,
wherein the cooling element is part of a corrugated strip having alternating contact areas contacting the first and second circulating elements respectively,
the cooling element is disposed at a second predetermined acute angle to the longitudinal direction of the first circulating element,
and the first and second predetermined acute angles are substantially equal in magnitude.

18. (New) A heat exchanger according to claim 17, wherein the magnitude of the second predetermined acute angle is in the range from 20 to 45 degrees.

19. (New) A heat exchanger according to claim 17, wherein the contact area is substantially rectilinear over substantially its entire length.

20. (New) A heat exchanger according to claim 17, wherein the cooling element is made of copper, a copper-based alloy, aluminum, or an aluminum-based alloy.


21. (New) A heat exchanger according to claim 17, wherein the cooling element is a fin.

22. (New) A heat exchanger comprising:
first and second circulating elements each having a longitudinal direction and each defining an interior space for conducting a flow of heat exchange medium, and
a cooling element composed of first and second portions each having a surface and each also having a contact area at one edge, wherein each portion of the cooling element is bonded at its contact area to the first circulating element and is provided with louvers, the louvers of the first portion of the cooling element are disposed at a first predetermined acute angle to the surface of the first portion of the cooling element, and the louvers of the second portion of the cooling element are disposed at a second predetermined acute angle to the surface of the second portion of the cooling element,
wherein the first portion of the cooling element is disposed at a third predetermined acute angle to the longitudinal direction of the first circulating element,
the second portion of the cooling element is disposed at a fourth predetermined acute angle to the longitudinal direction of the first circulating element,
and the first, second, third and fourth predetermined acute angles are substantially equal in magnitude.

23. (New) A heat exchanger according to claim 22, wherein the magnitudes of the third and fourth predetermined acute angles are each in the range from 20 to 45 degrees.

24. (New) A heat exchanger according to claim 22, wherein the contact areas of the first and second portions of the cooling element are each substantially rectilinear over substantially its entire length.

25. (New) A heat exchanger according to claim 22, wherein the cooling element is made of copper, a copper-based alloy, aluminum, or an aluminum-based alloy.

 26. (New) A heat exchanger according to claim 22, wherein the cooling element is a fin.